

## SCIENCE AND INDUSTRY.

—Fresno County, Cal., is making a canal one hundred feet wide from King's River to irrigate 80,000 acres of dry and worthless desert.

—A Richmond (Va.) paper claims that no city in the United States has made greater progress in manufacturing enterprises in the past ten or twelve years than that city.

—The canning of whales is a new industry in Norway. As the creatures are not put up in flat boxes, heads to tails, it is not anticipated that the business will interfere with Maine's sardine industry.

—Dr. Haensel, a German savant, has succeeded in photographing several lightning flashes, and with such success as to enable the length of the course of the electric current to be computed, and also the locality where the lightning struck to be estimated with accuracy. Valuable results are expected from further experiments.

—Pine sawdust, highly compressed, has been successfully used to make up centre frames of carriage wheels. It is said to be so solid that it will bear a pressure equal to twenty-three tons per square inch. As sawdust has also been used for partitions and bricks, its application to the production of complex carvings and moldings does not seem to be far off.—*Chicago Herald.*

—A Jacksonville (Fla.) merchant has just shipped North two hundred boxes of lemons grown in Florida. They are said to be as fine lemons as can be grown anywhere, their color being perfect, while they are finely flavored, and as juicy as the best Messinas. Mr. Bean, the shipper of the lot, says the fruit-growers throughout Florida are paying very much more attention to growing lemons since a successful experiment was made in curing them last season, and are setting out or budding a large number of trees.

—A party that made a visit recently to the New York Agricultural Experiment Station, a mile and a half from Geneva, found eleven hundred varieties of seed growing—of corn, 140, and of the tomato, 68. There is an experiment to ascertain the quantity of water absorbed on three plots of land—one being sward, one naked soil uncultivated, and one cultivated. The farm, which has 125 acres of rather stiff clay soil, cost the State \$25,000 in 1882. Dr. Sturtevant, the director, says that the station has already become profitable.—*Buffalo Courier.*

—Just how the pitching and rolling of a ship acts on the human frame so as to produce the physical and mental prostration of seasickness is a matter of dispute. A theory recently started by Dr. Irwin, an English physician, attributes it to disturbance of the fluids in the semi-circular canals of the ear. It is generally recognized that irritation of any kind in these passages produces nausea and vomiting. Dr. Chapman, on the other hand, sees the main proximate cause of this disorder in the presence of an undue amount of blood in the spinal nervous centers, which renders the nerves proceeding from them active, with the result of disturbing the action of the organs—especially the stomach—whose movements are regular.—*Chicago Times.*

## PITH AND POINT.

—Passengers from Havana pack cigars in their clothing—to keep out the moths, and avoid the duty.—*Lowell Courier.*

—“Every man is the architect of his own fortune,” provided he don't get it left to him or stumble onto a sinecure.—*The Judge.*

—A New England paper is talking about husking bees. It's a bold man, certainly, who will undertake to husk a bee.—*Louisville Courier-Journal.*

—The men who make sport of other men in this rockaway world are generally found to be the men who are supported by other men's money.—*Chicago Inter-Ocean.*

—An exchange says that 80,000 Americans annually visit Europe; but when we come to think that 51,200,000 stay at home we don't feel so awfully lonesome as we might.—*Chicago Tribune.*

—The Philadelphia Chronicle says the grammar used in the Mormon schools don't recognize the “first person singular,” which would upset their religion. But all the same the first person must feel pretty singular when her husband accumulates a dozen more wives.—*Norristown Herald.*

—Will be temperate.—Billy Jones of Thompson's corps, Entered through the barroom doors; Drunk till he could drink no more; Fell down on the barroom floor; Fell and made his head quite sore; Fell till he could fall no more; Says he will do so no more; But will join the temperance corps.—*Old City Derrick.*

—All New Orleans is boiling over, and many a man who thinks he has only a job's comforter is thrown into high fever by being assured by the physicians that he is simply troubled with a sebaceous cyst, or an erythematous inflammatory action, located in the innermost recesses of the sebaceous follicles.—*Boston Transcript.*

—A colored man living on Wilkins street was ordered by the sanitary police some time since to abate a bad-smelling nuisance at his back door. The other day the officer who served the notice met the man on the street, and asked: “Well, what did you do?” “Oh, I ‘bated that smell de werry nex’ day.” “Use chloride of lime?” “No, sah. I went to de woods an' got some skunk's cabbage to bile up on de stove an' de water ha'n't skerecky got hot befo' de ole smell turned a handspring an' went scootin'!”—*Detroit Free Press.*

—When the United States flagship Richmond, was at Shanghai, China, the great Chinese leader, Li Hung Chang, visited the ship and was received with all the honors, and an exhibition drill was given for his entertainment. He was very much delighted with the whole affair, and in return the next day sent a slight token of his appreciation. The “slight token” aggregated as follows: Twelve live sheep, two bullocks, 200 fowls, 1,000 pounds of bananas, 1,000 pounds of fruit, eight cases of English beer in pints (eight dozen each case), eight cases of English beer in quarts (four dozen each case), and eight cases of claret (one dozen quarts in each case).—*Chicago Herald.*

## HOME AND FARM.

—Keep chickens on clean runs and away from manure heaps if you want them to be free from gapes.—*Detroit Post.*

—When forked trees threaten to split twine and the twigs from opposite limbs together. They will unite.—*N. Y. Herald.*

—Southern Industries gives this good advice to farmers: “Stock your farm to the fullest extent with horses, cattle, sheep, and hogs; raise all the feed possible, and you have put your coarse grain, fodder, and straw to the best use possible in increasing the profits of the farm.”

—To take out dents or bruises in furniture, wet the part with warm water; double a piece of brown paper five or six times, soak it and lay it on the place; apply on that a hot flatiron until the moisture is evaporated. If the dent is not gone repeat the process. After two or three applications the dent will be raised level with the surface.—*Boston Transcript.*

—The amount of the crop of strawberries next year, says the *Country Gentleman*, will depend much on the treatment of the bed this year. A strong growth late in summer and during the first half of the autumn will give a good crop next year. Scatter manure between the rows or about the stools, and work it into the surface soil with a steel rake or hoe, if in the garden, or with horse culture in the field. Keep the runners cut, and a fine growth will be the result.

—Baby's Pie. The awful prevalence of pie in this country is illustrated by the remark sent to the *Drummer* by a grandfather, proud of his grandchild of three years who is visiting him. Entitled in her high chair, she waited at table for the appearance of the dessert. The family pie was duly set before grandma, and baby's eyes were directed that way, when a small pie made for her Majesty was slipped before her. Equal to the occasion, her eyes dancing with delight, she burst out with: “Oh, auntie, I'm mamma of this pie!”—*Editor's Drawer, Harper's Magazine.*

—A correspondent of *The Household* says the way to make a husk bed is to put the husks into plenty of water and spread them on the grass to dry, first spreading sheets on the grass to keep away the insects, etc., if possible. When the husks are dry draw them through a flax hatchel, or with a fork split them several times to make them softer. Then fill into a bed tick. Don't put in enough to be hard, but make a good, comfortable bed. Have a slit in the center of the bed tick, and every day stir the husk up. A button and button hole in the bed tick will make all secure, in which you wash or scald the husks every few years, they will keep, and you will have a cheap and comfortable bed.

## Wheat After Corn.

Many farmers in the Northern States would be glad to grow winter wheat if, without too much risk, they could make it follow corn. But there seems to be an impression that the corn crop can not be taken from the ground as early as winter wheat should be sown. Consequently, it is the common practice either to sow rye (which can be safely put in later than wheat) or else leave until the next year the land from which the corn is removed, and then sow spring wheat instead of winter wheat.

That late-sown wheat at the North often proves a failure can not be denied. But unless the delay is extreme, it is probable that in a large proportion of cases failure is due far less to late sowing than to it is to other causes. While extremely late sowing is never to be recommended, there is little doubt that, if other things receive proper attention, grain sown moderately late will yield a good crop. It will certainly yield better than early sowing on land in which the other conditions are unfavorable.

Among the essentials to success in growing winter wheat after corn may be named the following:

1. The corn should be cut as soon as ripe, and removed from the land as soon as it is dry enough to be easily handled.

2. The land should be plowed to a moderate depth, and all the corn-stubs which are not well covered should be carted from the field.

3. The land must be rich. If it was not heavily manured for the corn crop, it should receive a dressing of fine compost or of well-rotted manure. A moderate quantity of lime or ashes would also prove of great benefit. If none of these materials are at hand in sufficient quantities, some standard chemical fertilizer should be applied. Even on land that is in high condition it will pay to use lime, ashes or some chemical fertilizer. Whatever manure is used for this crop, it should be applied to the surface and harrowed in.

4. The surface soil must be thoroughly pulverized. This is of the utmost importance. Yet it is right here that many farmers fail. They prepare the land as well as they do for corn, and think that is all that is required. They overlook the fact that in the early stages of its growth wheat is a delicate plant, which needs the most careful manner, and which needs plenty of plant food near the surface, and in a form in which it is immediately available.

Good seed, of some well-known and thoroughly tested variety, should be sown. This, whatever the time of sowing, is always essential. Drilling is better than broadcast sowing, and requires less seed. One bushel per acre if drilled, or one and a half if broadcast will probably be sufficient, though some prefer a larger quantity. If the land is not very carefully prepared, from twenty-five to fifty per cent. more seed will be required. Rolling, after the seed has been sown, will prove an advantage.

If the land is naturally wet and has not been drained, large furrows should be plowed as soon as the sowing is finished, to carry off the surplus water of heavy autumn rains, and of the melting snow in spring.

I am confident that attention to the points noted above will enable many farmers at the North, who wish to grow winter wheat in small quantities for home use, to obtain a good crop from land which has this year produced a crop of corn.—*Cor. N. Y. Examiner.*

—The sad story of the suicide of two sixteen-year-old lovers comes from Brownsville, this State. They tied themselves together, plunged into the Yera River, and were drowned, locked in each other's arms. Louis Fernandez, the boy, was of a family well off, and his uncle would not let him marry Carmen Lira, the daughter of a poor laborer. The night they disappeared search was made and their hats found on the river, containing a note asking that they be buried together. The mother of the girl, who was present, on learning the news, sprang into the river to rise no more. The bodies were all recovered and buried side by side.—*Fort Worth (Tex.) Gazette.*

—The Duke of Gothland, who is the youngest son of the King of Sweden, has gone on a scientific voyage around the world for the last year and a half. The course is by way of Cape Horn, the Sandwich Islands and the coast of Asia, and the Cape of Good Hope.

An Indianapolis baby was bitten. In teasing a pet Maltese kitten, Before a day ended, St. Jacobs Oil mended, And with it mothers are smitten.

A hunter who lives at Bear Run, Hunt his arm by the kick of a gun, But St. Jacobs Oil Cured him before swelling begun.

The voice of the turtle is supposed by the Rochester *Express* to have been the “turtle's whoop.”

Only Two Bottles.—Messrs. Johnston, Holway & Co., wholesale druggists of Philadelphia, Pa., report that some time ago a gentleman handed them a dollar, with a request to send a good catarrh cure to two army officers in Arizona. Recently the same gentleman told them that both the officers and the wife of a well-known U. S. A. General had been cured of catarrh by the two bottles of Ely's Cream Balm.

ONE swallow does not make a summer, nor one swallow-tail a summer novel.—*Chicago Journal.*

I HAVE been using Swift's Specific (SSS) and find it to be the best remedy of the kind that I have ever been able to get, and I have tried them all.

JOHN FISCHER, 34 U. S. Cavalry.

“NO MORE reflections, please,” said the looking-glass after it had tumbled down stairs.—*N. Y. Journal.*

Greatest Discovery Since 1492.

For coughs, colds, sore throat, bronchitis, laryngitis, and consumption in its early stages, nothing equals Dr. Pierce's “Golden Medical Discovery.” It is also a great blood-purifier and strength-restorer or tonic, and for liver complaint and costive conditions of the bowels it has no equal. Sold by druggists.

Billiard playing is a sort of green baize game.—*N. Y. Freeman.*

I HAVE known and watched the use of Swift's Specific (S. S. S.) for over fifty years, and never have known or heard of its failure to cure any case of Blood Poison when properly taken.

H. L. DENNARD, Perry, Ga.

A MISER is often surprised at close quarters.—*N. Y. News.*

FRONT ROYAL, Va.—Dr. G. H. Hill says: “Brown's Iron Bitters seems to give general satisfaction. I recommend it strongly.”

BILLS of long standing and trunks of long sitting are better receipted.—*Detroit Post.*

ALL recommend Wise's Axle Grease.

THE last man fling at Rhode Island is that a locomotive whistle is heard all over the State.—*Chicago Herald.*

What's Saved is Gained.

Workmen will economize by employing Dr. Pierce's Medicine. His “Golden Medical Discovery” cleanses the blood and system, thus preventing fevers and other serious diseases, and curing all scrofulous and other humors. Sold by druggists.

Is a lost girl a Maid of the Mist?—*N. Y. Graphic.*

THE only scientific Iron Medicine that does not produce headache, &c., but gives to the system all the benefits of Iron without its bad effects, is Brown's Iron Bitters.

THE women who do fancy work don't fancy work.

OTTAWA, ILL.—Dr. T. A. Smur says: “Brown's Iron Bitters give entire satisfaction.”

AFTER a bill is settled you can enjoy the rest that follows payin'—*N. Y. Journal.*

\$500 REWARD will be paid for any case of chills that CHILLAXINE will not cure. Try it.

ANGER is a passion which may be red in the face.—*Burlington Free Press.*

If your horses have sore shoulders, scratches, cuts or open sores of any kind, use Stewart's Healing Powder.

## THE MARKETS.

NEW YORK, October 3, 1883.	
CATTLE—Exporters.....	\$6.30 @ 10 3/4
COTTON—Middling.....	10 1/2 @ 10 3/4
FLOUR—Good to Choice.....	4.40 @ 4.45
WHEAT—No. 2 Red.....	1.15 @ 1.16 1/2
CORN—No. 2.....	.61 @ .61 1/2
OATS—No. 2.....	.22 @ .22 1/2
PORK—New Mess.....	11 3/4 @ 11 8/4
ST. LOUIS.	
CATTLE—Exporters.....	5.00 @ 10 3/4
BEEVES—Exporters.....	5.00 @ 10 3/4
COTTON—Middling.....	10 1/2 @ 10 3/4
FLOUR—Good to Choice.....	4.40 @ 4.45
WHEAT—No. 2 Red.....	1.15 @ 1.16 1/2
CORN—No. 2.....	.61 @ .61 1/2
OATS—No. 2.....	.22 @ .22 1/2
PORK—New Mess.....	11 3/4 @ 11 8/4
KANSAS CITY.	
CATTLE—Exporters.....	4.90 @ 5.50
BEEVES—Exporters.....	4.35 @ 4.65
COTTON—Middling.....	10 1/2 @ 10 3/4
FLOUR—Good to Choice.....	4.40 @ 4.45
WHEAT—No. 2 Red.....	1.15 @ 1.16 1/2
CORN—No. 2.....	.61 @ .61 1/2
OATS—No. 2.....	.22 @ .22 1/2
PORK—New Mess.....	11 3/4 @ 11 8/4
NEW ORLEANS.	
CATTLE—Exporters.....	5.15 @ 5.75
BEEVES—Exporters.....	4.50 @ 5.00
COTTON—Middling.....	10 1/2 @ 10 3/4
FLOUR—Good to Choice.....	4.40 @ 4.45
WHEAT—No. 2 Red.....	1.15 @ 1.16 1/2
CORN—No. 2.....	.61 @ .61 1/2
OATS—No. 2.....	.22 @ .22 1/2
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## THE HIGHEST AUTHORITY.

Upon a Subject of Vital Interest, Affecting the Welfare of All.

The following remarkable letter from one of the leading and best known scientific writers of the present day is especially significant, and should be of unusual value to all readers who desire to keep pace with the march of modern discoveries and events:

A general demand for reformation is one of the most distinctive characteristics of the nineteenth century. The common people, as well as the more enlightened and refined, cry out with an uncertain voice to be emancipated from the slavery of conservatism and superstition which has held the masses in gross ignorance during a large portion of the world's history, and in the time of the Dark Ages came near obliterating the last remnant of truth. Dogmatic assertions and blind empiricism are losing caste among all classes of all countries. People are beginning to think for themselves, and to regard authority much less than argument. Men and women are no longer willing that a few individuals should dictate to them what must be their sentiments and opinions. They claim the right to solve for themselves the great questions of the day and demand that the general good of humanity shall be respected. As the result of this general awakening we see, on every hand, unmistakable evidences of reformatory action. People who, a few years ago, endured suffering the most intense in the name of duty, now realize the utter foolishness of such course. Men who were under the bondage of bigoted advisers allowed their health to depart; suffered their constitutions to become undermined, and finally died as martyrs to a false system of treatment. There are millions of people living untimely graves who might have lived to a green old age had their original troubles been taken in time for proper treatment. There are thousands of people to-day, thoughtlessly enduring the first symptoms of some serious malady and without the slightest realization of the danger that is before them. They have occasional headaches; a lack of appetite one day and a ravenous one the next; or an unaccountable feeling of weakness, sometimes accompanied by nausea, and attribute all these troubles to the old idea of “a slight cold” or malaria. It is high time that people awake to the knowledge that the seriousness of many matters and complicated themselves from the professional bigotry which controls them. When this is done and when all classes of physicians become liberal enough to exclude all dogma, and to give the duty to cure disease as quickly and as safely as possible; to maintain no other position than that of truth honestly ascertained, and to advise and recommend only a remedy that has been found useful, no matter what its origin, there will be no more quarrelling among the doctors, while there will be the great rejoicing throughout the world.

“I am well aware of the censure that will be meted out to me for writing this letter, but I feel that I can not be true to my convictions unless I extend my helping hand and endorse all that I know to be good. The extended publications for the past few years, and graphic descriptions of the diseases of the kidneys and liver have awakened the medical profession to the fact that these diseases are greatly increasing. The treatment of the doctors has been entirely wrong, and many of their patients have died while they were waiting about for a remedy to cure them.

“It is now about two years since my attention was first called to the use of a most wonderful preparation in the treatment of Bright's disease of the kidneys. Patients had frequently asked me about the remedy, and I had heard of remarkable cures effected by it, but like many others I hesitated to recommend its use. A personal friend of mine had been in poor health for some time, and his application for insurance on his life had been rejected on account of Bright's disease. Chemical and microscopic examinations of his urine revealed the presence of large quantities of albumen and granular tube casts, which confirmed the correctness of the diagnosis. After trying all the usual remedies, I directed the use of this preparation, and was greatly surprised to observe a decided improvement within a month, and within four months no tube casts could be discovered. I heard of remarkable cures effected by it, but like many others I hesitated to recommend its use. 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